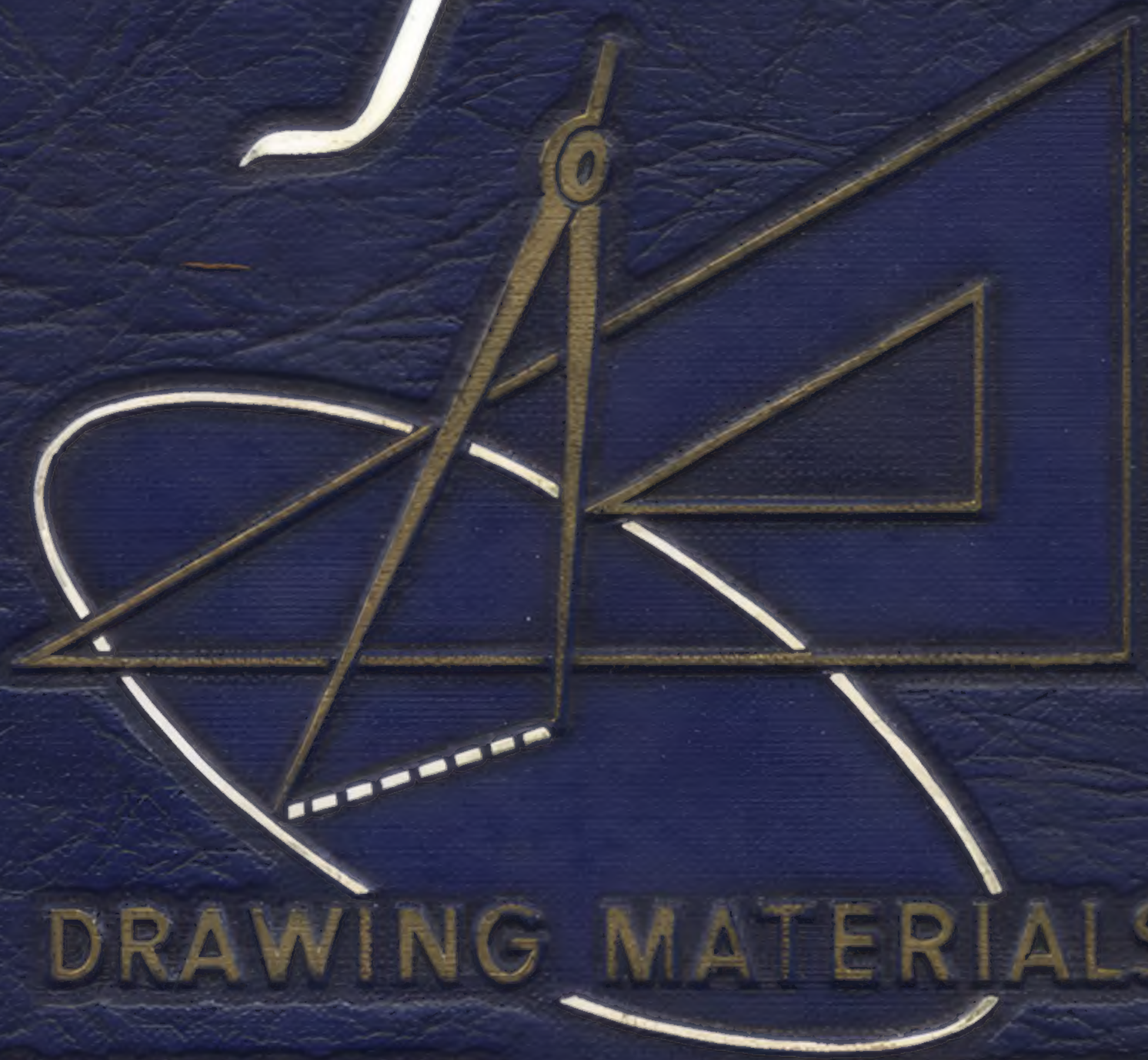
Defiance

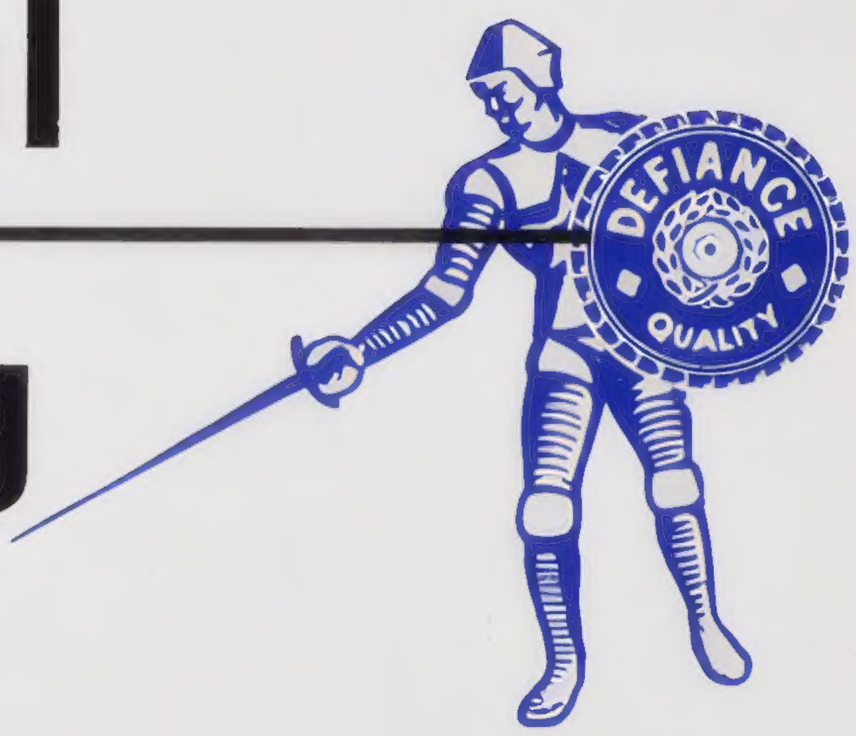


DRAWING MATERIALS

ARCHITECTS *and* ENGINEERS

SUPPLIES

General Catalog



DEFIANCE SALES CORPORATION

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Sensitizing Plants — NEW YORK AND PHILADELPHIA

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LEAD PENCILS

No. 4000 CASTELL PENCILS, Green Finish. In degrees as follows: 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H. In boxes of 1 dozen.

No. 4005 KOH-I-NOOR PENCILS, Yellow Finish, Gold Stamped. In degrees as follows: 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H. In boxes of 1 dozen.

No. 4010 ELDORADO PENCILS, Yellow Finish, Gold Stamped. In degrees as follows: 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H. In boxes of 1 dozen.

No. 4015 VAN DYKE PENCILS, Yellow Finish, Gold Stamped. In degrees as follows: 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H. In boxes of 1 dozen.

No. 4016 MARS LUMOGRAPH DRAWING PENCILS, hexagon, blue finish, gold stamped, 19 degrees: EXEXB, EXB, 6B through 9H. Metal boxes of 1 dozen.

No. 4019 TURQUOISE CHEMI-SEALED PENCILS, blue finish, gold stamped. In 17 degrees as follows: 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H and 9H. In boxes of 1 dozen.

No. 4020 VENUS PENCILS, dark green finish, variegated, gold stamped. In 17 degrees as follows: 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H and 9H. Also in T1, T2 and T3, designated as tracing pencils. In boxes of 1 dozen.

RUBBER TIPPED PENCILS

No. 4022 VENUS PENCILS, crackled green finish, gilt top with green band, red eraser, 14 degrees, 3B to 9H. In boxes of 1 dozen.

No. 4025 MONGOL PENCILS, yellow finish, red eraser. In 5 degrees as follows: Nos. 1, 2, F (2½), 3 and 4. Boxes of 1 dozen.

No. 4030 VELVET PENCILS, blue band, with gilt tip and pink rubber. In four degrees as follows: Nos. 1, 2, 3, 4. Packed 1 dozen in telescopic box, and ½ gross in a carton.

No. 4035 TICONDEROGA PENCILS, yellow finish, red eraser. In 5 degrees as follows: No. 1 very soft, No. 2 soft, No. 2 5/10 firm, No. 3 medium, No. 4 hard. In boxes of 1 dozen.

PENCIL HOLDERS

No. 4040 PENCIL HOLDER, single end, 5 inches long. Boxes of 1 dozen.

No. 4041 ALL ALUMINUM PENCIL HOLDER, double end, 3½ inches long. Boxes of 1 dozen.

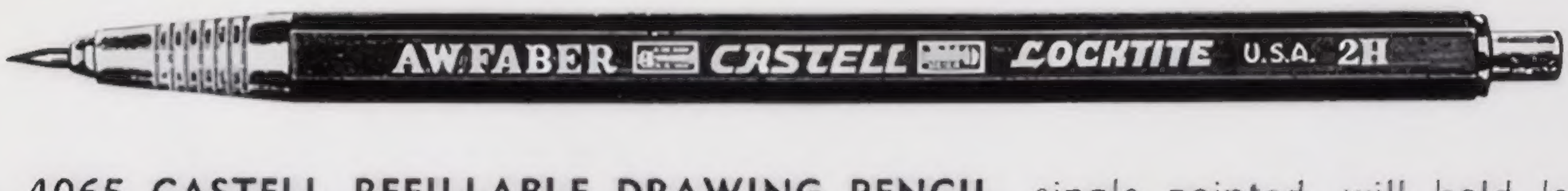
No. 4042 VAN DYKE PENCIL HOLDER, 5 inches long. Boxes of 1 dozen.

REFILLABLE PENCILS AND LEADS

No. 4060 TURQUOISE REFILLABLE DRAWING PENCIL, single point, with 2 adjustable indicators for showing degree of lead being used. Will hold leads from 4B to 9H.

No. 4061 TURQUOISE PRESTOMATIC REFILLABLE DRAWING PENCIL, with 2 adjustable indicators for showing degree of lead being used. Polished aluminum. Will hold leads from 4B to 9H.

No. 4062 TURQUOISE LEADS FOR REFILLABLE DRAWING PENCILS, in degrees 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H. Box of 6 leads.



No. 4065 CASTELL REFILLABLE DRAWING PENCIL, single pointed, will hold leads from 6B to 6H.

No. 4066 CASTELL REFILLABLE COLORED PENCIL. In blue, green, yellow, red, and white.

No. 4067 CASTELL LEADS for refillable drawing pencils, in degrees 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H. Tube of 12 leads.

No. 4068 CASTELL COLORED LEADS for refillable drawing pencils, in colors, red, blue, green, yellow, white, orange and carmine. Tube of 12 leads.

No. 4070 KOH-I-NOOR REFILLABLE DRAWING PENCIL, will hold leads from B to 9H. Refillable pencils for leads 6B to 2B on special order.

No. 4071 KOH-I-NOOR REFILLABLE DRAWING PENCIL, double pointed, will hold leads from B to 9H.

No. 4072 KOH-I-NOOR LEADS for refillable drawing pencils, in degrees 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H and 9H. Box of 6 leads.

REFILLABLE PENCILS AND LEADS

No. 4080 MARS LUMOGRAPH TECHNICO PENCIL is the convenient push button type. Made in 15 degrees: EXB, 6B through 6H. Finished in blue with white band.

No. 4081 MARS LUMOGRAPH PENCIL is operated by turning the finger grip. Made in 18 degrees: EXB, 6B through 9H. Finished in blue with sharpener cap to quickly point leads.

No. 4082 MARS LUMOGRAPH LEADS. In 18 degrees: EXB, 6B through 9H. Each lead is equipped with metal collar which prevents falling out of the holder. Box of 12 leads.

No. 4083 VENUS REFILLABLE PENCIL, metal tip, single pointed, in degrees 3B to 9H, with lead.

No. 4084 VENUS LEADS for Artist Pencils, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H. Box of 6 leads.

No. 4090 MICROTOMIC REFILLABLE PENCIL, designed for balance and comfort. Hexagon shaped, gray plastic barrel. Positive action lead clutch holds all degrees of Microtomic leads; the removable cap conceals a second interchangeable clutch for thicker leads. Caps in one of 4 bright colors for identifying type of lead in pencil. Holder complete with one lead.

No. 4092 MICROTOMIC VAN DYKE DRAWING LEADS, produce a uniform clear opaque line. For use with Microtomic Holder or other standard makes. Made in 17 degrees. 5 inches long, in wood lined box with a strip of emory cloth on either side for sharpening. 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H. Box of 6 pointed leads.

REFILLABLE PENCILS

No. 4100

No. 4101

The Alteneder Draftsmen's and Artist's Pencil is made of natural finished snakewood with a grooved grip for firm holding. The lead chamber extends the entire length permitting the use of standard 5 inch leads, .065 to .082 or 9H to B. The hardened steel chuck provides a straight clamping surface, holding leads firmly and preventing breakage. The clamp is knurled to provide a grip when clamping or releasing leads.

No. 4100 SINGLE POINTED PENCIL with detachable pocket clip and composition cap in White, Black, Red, Blue or Green.

No. 4101 DOUBLE POINTED PENCIL with Alteneder needle point at one end.

Extra Erasers and Clamps available.

The Stabilomin pencil is made of a durable lacquered metal that will not bend or break. It is light weight and comfortable in the hand. Simple to adjust and reload. Its powerful clamp action guarantees a sure response and a firm point. Takes Stabilo black and colored leads. Lead is quickly identified by special interchangeable end caps supplied.

No. 4105 STABILOMIN PENCIL, will hold refill leads. Grades 3B thru 9H and 24 color refills.

No. 4106 STABILOMIN THICK LEAD PENCIL will hold leads 4B, 5B, 6B, 7B, and Gold and Silver.

COMPASS LEADS

No. 4109 COMPASS LEADS, .076 diameter, 1" long, pointed. In 5 degrees, HB, H, 2H, 3H and 4H. 6 leads in a tube.

VEMCO TEC REFILLABLE PENCILS AND LEADS

The Vemco Tec Draftsmen's Refillable Pencils are finely made and feature an all metal mechanism designed for balance and positive lead holding action. Holds 14 different degrees of lead (3B through 9H) and color leads. A precision tool for precise drafting. Made in three styles as illustrated.

No. 4110 VEMCO TEC SINGLE END REFILLABLE PENCIL.

No. 4111 VEMCO TEC SINGLE END REFILLABLE PENCIL.

No. 4112 VEMCO TEC DOUBLE END REFILLABLE PENCIL.

No. 4113 VEMCO TEC DRAWING LEADS are smooth, strong, uniform and extra long. In all degrees of hardness (3B through 9H), 5½ inches long. Tube of 12 leads of a single degree or assorted. Gross of leads of a single degree.

VEMCO TEC REFILLABLE PENCILS AND LEADS

Vemco Tec Refillable Crayon and Lead Pencils are designed especially for sketching, rendering, drawing, checking, and layout work. Ideal for blueprint marking. Holds soft graphite and colored crayons.

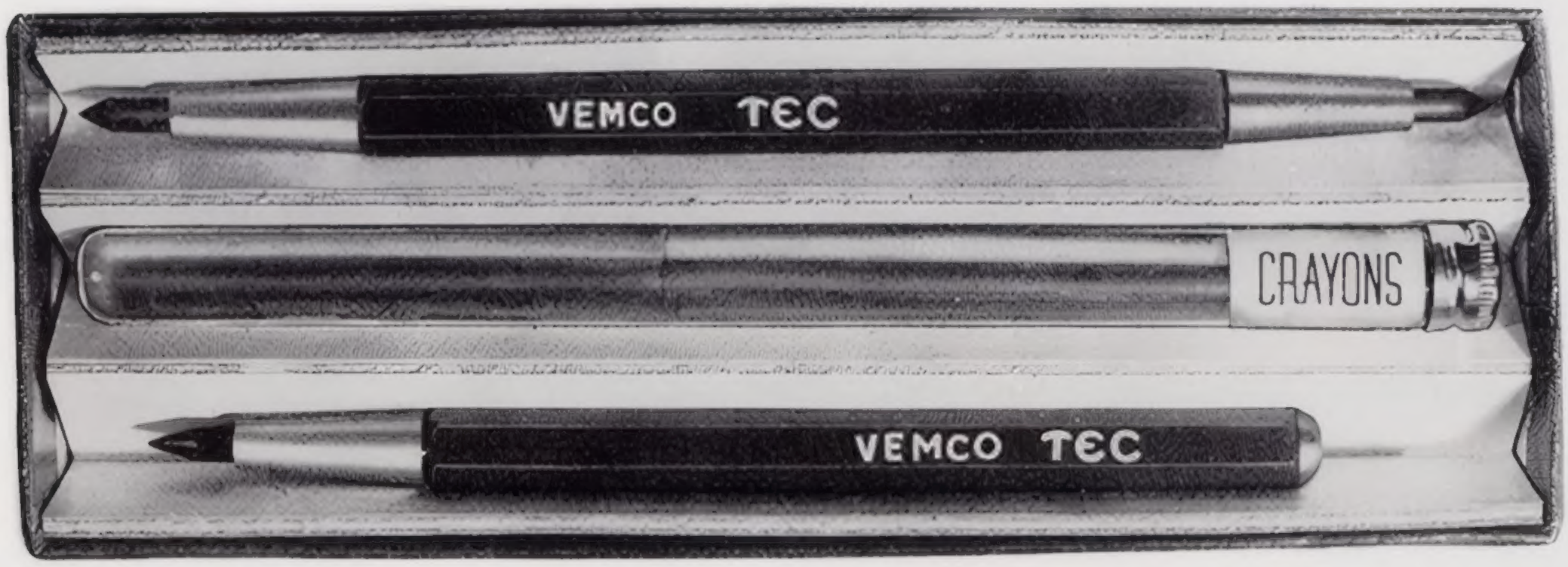
No. 4120 VEMCO TEC SINGLE END REFILLABLE PENCIL.

No. 4121 VEMCO TEC DOUBLE END REFILLABLE PENCIL.

No. 4122 VEMCO TEC CRAYONS. Strong, large diameter, wax based crayons. 2½ inches long. Tubes of 12 crayons.

CS-00	Purple	CS-2	Red	CS-5	Orange	CS-9	6 Red and 6 Blue
CS-0	Yellow	CS-3	Green	CS-6	Brown	CS-11	Carbon Black
CS-1	White	CS-4	Blue	CS-7	Assorted		

No. 4123 VEMCO LEADS. Smooth, black, large diameter 5B sketching and editing leads. 2¼ inches long. Tube of 12 leads.



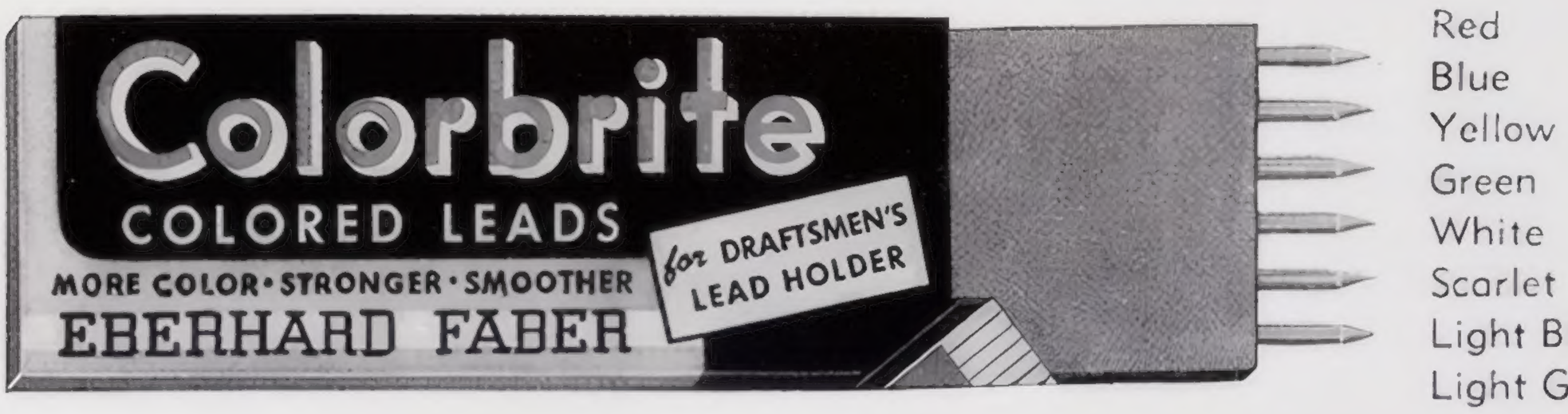
No. 4124 VEMCO TEC ART SET. Contains one No. 4120 Single End pencil, one No. 4121 Double End pencil, and tube of eight assorted colored crayons.

REFILLABLE COLOR PENCILS AND LEADS

No. 4130 COLORBRITE REFILLABLE PENCIL with transparent plastic barrel for easy selection of lead color. Holds lead firmly without breaking. Complete with one colorbrite lead in individual box. Red, Blue, Yellow, or Green.

No. 4131 COLORBRITE REFILLABLE PENCIL ASSORTMENT, one dozen No. 4130 pencils in individual boxes fitted with Colorbrite leads as follows: 6 Red, 4 Blue, 1 Yellow, 1 Green.

No. 4132 COLORBRITE LEADS, designed for use in Colorbrite holder. Strong, smooth and elastic. Packed 6 of a color, 5 inches long and pointed, in wood lined box. One dozen boxes in a carton.



No. 4135 NORMA MULTICOLOR PENCIL. A high grade mechanical pencil in either 3 or 4 color combinations. Instant change of color; uses standard .046 leads. Mechanism fully guaranteed. Chrome finish. Complete with clip, eraser, and magazine holding 12 assorted leads. In 3 combinations below.

A. 3 color pencil—Black, Red, Blue
B. 4 color pencil—Black, Red, Blue, Green.
C. 4 color pencil—Black, Red, Blue, Yellow.

No. 4136 BLACK REFILL LEADS. Box of 1 dozen in degrees: HB, F, H, 2H, 3H.

No. 4137 COLORED REFILL LEADS. Box of 1 dozen in Blue, Red, Green, or Yellow.

No. 4138 ASSORTED LEADS. 12 Black, 4 Red, 4 Blue, 4 Green.

No. 4139 NORMA ERASERS. Box of 3.

COLORED PENCILS

No. 4150 CASTELL POLYCHROMOS PENCILS can be used wet or dry. They permit work in the style of Aquarelle or Tempera painting on all kinds of drawing paper, oil paper, or tracing cloth. Polychromos achieves water and oil color effects that are fadeless and washable. An ideal technique for coloring sketches or photographs, making complete drawings, or designing on textiles. Made in 65 colors; finished in color to correspond with color of crayon in pencil and stamped in gold. Box of 1 dozen of a color.

List of Color Numbers, specify when ordering

1. White
2. Zinc Yellow
3. Lemon Cadmium
4. Light Chrome
5. Light Cadmium
6. Dark Cadmium
7. Naples Yellow
8. Dark Chrome
9. Orange
10. Terre Verte
11. Olive Green
12. Mineral Green
13. French Green
14. Green Bice
15. Sap Green
16. Hooker's Green, No. 1.
17. Hooker's Green, No. 2
18. Viridian
19. Vegetable Green
20. Prussian Green
21. Light Blue
22. Sky Blue
23. Cobalt Blue
24. Ultramarine
25. Paris Blue
26. Prussian Blue
27. Indigo
28. Delft Blue
29. Red Violet Lake
30. Blue Violet Lake
31. Pink Madder Lake
32. Madder Carmine
33. Rose Pink
34. Carmine Lake
35. Carmine Extrafine
36. Scarlet Lake
37. Saturn Red
38. Pale Vermilion
39. Dark Vermilion
40. Light Ochre
41. Raw Sienna
42. Gold Ochre
43. Burnt Yellow Ochre
44. Brown Ochre
45. Burnt Sienna
46. Venetian Red
47. Brick Red
48. Terra Cotta
49. Indian Red
50. Burnt Carmine
51. Raw Umber
52. Bistre
53. Van Dyke Brown
54. Burnt Umber
55. Sepia
56. Warm Sepia
57. Light Grey
58. Neutral Tint
59. Payne's Grey
60. Ivory Black
200. Flesh Tints, Light
201. Flesh Tints, Dark
202. Light Violet
203. Dark Violet
204. Azure Blue

No. 4151 CASTELL POLYCHROMOS COLORED PENCIL ASSORTMENTS, specify assortment letter and color numbers desired.

A. 6 pencils
B. 12 pencils
C. 18 pencils
D. 24 pencils
E. 36 pencils
F. 48 pencils
G. 64 pencils

COLORED PENCILS

No. 4155 VENUS UNIQUE COLORED PENCILS are used for writing, checking, drawing, or marking on prints. Strong thin waterproof leads can be sharpened to a fine point in an ordinary pencil sharpener. Enameled to match lead color. Made in 24 colors. Box of 1 dozen of a color.

No. 4156 VENUS UNIQUE COLORED PENCIL ASSORTMENTS.

A. 12 colors*

B. 24 colors

Specify letter when ordering.

Red* (1207)	Light Blue* (1216)	Field Green (1238)
Dark Red (1227)	Ultramarine (1236)	Brown* (1212)
Vermilion (1231)	Yellow* (1209)	Sepia (1224)
Pink* (1217)	Chrome Yellow (1229)	Maroon* (1219)
Mauve (1225)	Orange* (1214)	Ochre (1239)
Violet (1230)	Green* (1208)	White (1215)
Purple* (1210)	Light Green* (1218)	Gray (1232)
Blue* (1206)	Olive Green (1228)	Black* (1213)

No. 4160 MONGOL COLORED PENCILS have extra strong thin leads which can be sharpened to a fine point. May be used dry for drawings or wet for water color washes. Made in 24 colors. Box of 1 dozen of a color.

No. 4161 MONGOL COLORED PENCIL ASSORTMENTS.

A. 24 colors

B. 12 colors*

Specify letter when ordering.

Red* (866)	Prussian Blue (855)	Prussian Green (858)
Carmine* (876)	Yellow* (867)	Brown* (863)
Burnt Carmine (803)	Lemon Yellow (817)	Vandyke Brown (893)
Pink (846)	Orange* (862)	Brown Ochre (853)
Heliotrope* (864)	Light Green* (848)	Terra Cotta (813)
Purple* (844)	Dark Green* (868)	White (841)
Light Blue* (845)	Olive Green (888)	Gray (819)
Dark Blue* (865)	French Green (898)	Black* (849)

COLORED PENCILS

No. 4165 EAGLE VERITHIN COLORED PENCILS are made of water insoluble pigments. Pencils lacquered to match lead color. Box of 1 dozen of a color.

No. 4166 EAGLE VERITHIN PENCIL ASSORTMENTS.

A. Box containing 12 colors*
B. Box containing 24 colors

Specify letter when ordering.

734.	White*	**743.**	Pink
734½.	Light Grey*	**743½.**	Rose
735.	Canary Yellow*	**744.**	Scarlet Red*
735½.	Lemon Yellow	**745.**	Carmine Red*
736.	Yellow Ochre	**745½.**	Terra Cotta
736½.	Orange Ochre	**746.**	Sienna Brown*
737.	Orange*	**746½.**	Tuscan Red
737½.	Sea Green	**747.**	Black*
738.	Grass Green	**747½.**	Dark Grey
738½.	Light Green	**748.**	Red & Blue
739.	Green*	**750.**	Vermilion*
739½.	Olive Green	**751.**	Emerald Green
740.	Ultramarine Blue	**752.**	Purple
740½.	Sky Blue	**753.**	Silver
741.	Indigo Blue*	**754.**	Gold
741½.	Azure Blue	**755.**	Golden Brown
742.	Violet	**756.**	Dark Brown
742½.	Lavender*	**757.**	Flesh

No. 4175 MARS LUMOGRAPH TRADITION CHROMA PENCILS. Blended finish to match lead color, white cap. Recommended for sketching, coloring, checking, print marking, etc.

Bishops Lilac
Florentine Brown
Mountain Blue
Chrome Green
Saturn Orange
Chalk White*
Silver*
Gold*
Vermilion Red**
Indigo Blue**
Grass Green**
Lemon Yellow
Ivory Black
Mouse Gray
Brick Red*
Zinc Yellow*
Carmine Red**

*Recommended for blue print marking
**Recommended for white print marking

COLORED PENCILS

No. 4180 EAGLE PRISMACOLOR COLORED PENCILS are exceptionally firm and smooth with great covering power. Thick soft leads in 34 brilliant colors. Colors blend well to produce beautiful pastels. Excellent light resistance, showing no appreciable fading after a year's exposure to sunlight. Box of 1 dozen of a color.

No. 4181 EAGLE PRISMACOLOR PENCIL ASSORTMENTS. Specify letter when ordering.

A. Box of 12 colors*

B. Box of 24 colors†

†•**901**—Indigo Blue
† **902**—Ultramarine
†•**903**—True Blue
904—Light Blue
† **905**—Aquamarine
† **908**—Dark Green
•**909**—Grass Green
•**910**—Emerald Green
† **911**—Olive Green
† **912**—Apple Green
•**915**—Lemon Yellow
† **916**—Canary Yellow
† **917**—Yellow Orange
•**918**—Orange
†•**921**—Vermilion Red
† **922**—Scarlet Red
923—Scarlet Lake
†•**924**—Crimson Red
† **925**—Crimson Lake
926—Carmine Red
929—Pink
930—Magenta
†•**931**—Purple
† **932**—Violet
†•**935**—Black
936—Dark Grey
† **937**—Light Grey
†•**938**—White
† **939**—Flesh
† **942**—Yellow Ochre
† **943**—Burnt Ochre
† **944**—Terra Cotta
† **945**—Sienna Brown
†•**946**—Dark Brown

No. 4184 DIXON COLORED PENCILS. Strong leads for sketching, drawing, checking, etc. Individual colors packed in boxes of 1 dozen, and ⅓ gross.

Extensively used as a correction pencil for revising master sheets for duplicating machines.

349—Red
350—Blue
353—Yellow
343—Brown
354—Green
352—White
331—Black

No. 4185 THINEX BLUEPRINT PENCILS. For use on Blueprint Paper, Van Dyke and Photostats, Drawings, etc. Can be erased. Thin brilliant colored leads retain a fine point for drawing thin lines or marks. Not water soluble. Box of 1 dozen of a color.

369—Lake Red
370—Red
373—Yellow
374—Lemon Yellow
375—Green
376—Blue
377—Violet
378—Brown

ARTIST'S PENCILS

No. 4190 EAGLE DRAUGHTING PENCIL. Very soft and black. 1 dozen banded, or box of 6 dozen.

No. 4191 ELDORADO SKETCHING PENCIL. Broad, oval shaped pencil with extra soft, flat black lead.

No. 4192 CHARCOAL PENCIL. Made of selected ground charcoal, free of all grit and impurities. Makes a fine clean line with minimum of smudging. Made in four true to grade textures; Hard, Medium, Soft, Extra Soft. In paper tear-back wrapper. Box of one dozen.

No. 4193 MARS LUMOGRAPH CARBONITE CHARCOAL PENCIL. Black finish; in 3 degrees of leads: Soft, Medium, and Hard. Boxes of 1 dozen.

No. 4194 CHARON PENCIL. A large round pencil, with thick lead that makes rich black charcoal marks without gloss. Used in art classes; also for specking woolens.

No. 4195 ORDINARY FRENCH CHARCOAL, 6 inches long, 50 sticks in box.

No. 4196 "VINE" CHARCOAL, thin sticks, soft, 25 to box.

No. 4197 CONTE, VENETIAN CHARCOAL, 50 sticks to box.

No. 4198 ROUGET CHARCOAL, extra fine, ends wrapped in foil, No. 1 Hard, No. 2 Medium, No. 3 Soft, 25 sticks in box.

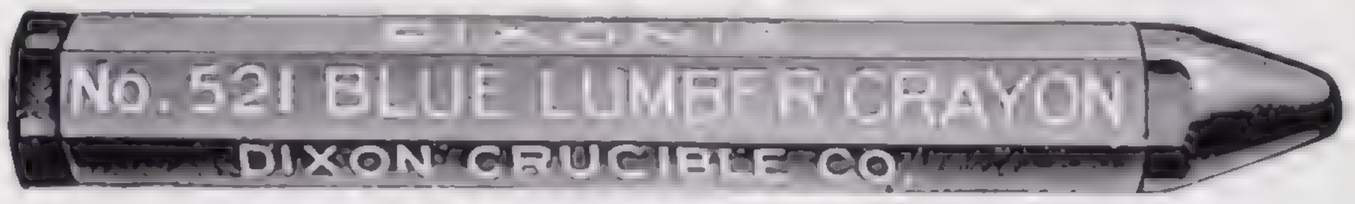
MARKING PENCILS

No. 4200 BLAISDELL CHINA MARKING PENCILS for use on China, Glass, Steel, or Tile. **No Surface is too Slick** In paper tear-back wrapper. Box of 1 dozen of a color.
Thick Leads: 166 Brown, 168 Blue, 169 Red, 171 Green, 173 Black.
Thin Leads: 163 Black.

No. 4201 BLAISDELL PLASTIX MARKING PENCIL, makes bold, waterproof marks on plastic surfaces. Lines go on easily, remain clear under handling, yet can be removed with a damp cloth. Seven colors; one dozen in each box. **A NEW PENCIL for a NEW INDUSTRY.** White, Crimson, Blue, Red, Yellow, Green, Black.

No. 4202 BLAISDELL BLUEPRINT PENCILS, for altering or correcting blueprints. In paper tear-back wrapper. Box of 1 dozen of a color.
Red, Blue, Yellow, Green, Brown, Black, or White.

No. 4203 VAN DYKE BLUEPRINT PENCILS. High quality, strong, brilliant leads. Pencil polished to match leads. 1 dozen of a color; carton of ¼ gross.
White, Blue, Red, Yellow, or Red and Yellow Combination.



No. 4204 DIXON LUMBER CRAYONS. Especially adapted for marking logs or lumber subject to immersion in water or exposure to the elements. Hexagon. Box of 1 dozen.
Black, Red, Blue, Yellow.

No. 4205 SOAPSTONE CRAYON for burnishing tracing cloth or paper after erasing, also for marking on metal. Box of 1 dozen sticks 5 x ½ x 3/16 inches.

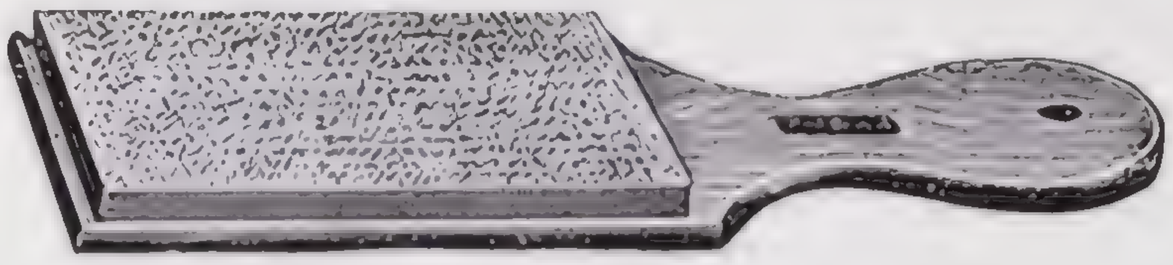
PENCIL POINTERS

No. 4405 KOH-I-NOOR PENCIL POINTER is a well made instrument with two openings; one for cutting away the wood and one for pointing pencils. Convenient to carry on field work. Complete with leather case.

No. 4406 REPLACEMENT CUTTING BLADES. Large size, for cutting the wood away.

No. 4407 REPLACEMENT POINTING BLADE. Small size, for pointing the pencil lead.

No. 4412 - 4417



No. 4416 - 4418

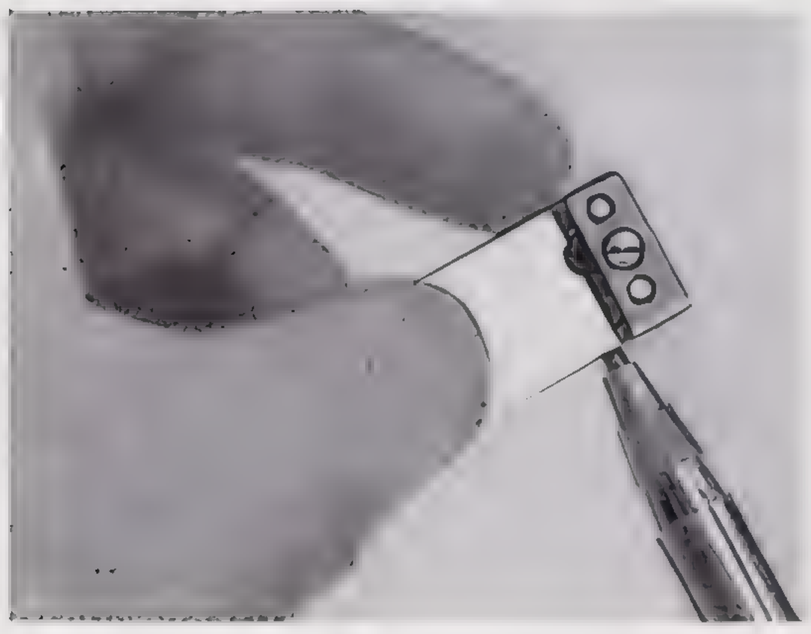
No. 4412 PENCIL POINTER. Contains 12 sheets of sandpaper 1 ¼ x 4 inches.

No. 4416 PENCIL POINTER. Contains 12 sheets of sandpaper 1 ¼ x 4 inches with handle.

No. 4417 PENCIL POINTER. Contains 12 sheets of emery paper 1 ¼ x 4 inches.

No. 4418 PENCIL POINTER. Contains 12 sheets of emery paper 1 ¼ x 4 inches with handle.

LEAD POINTER



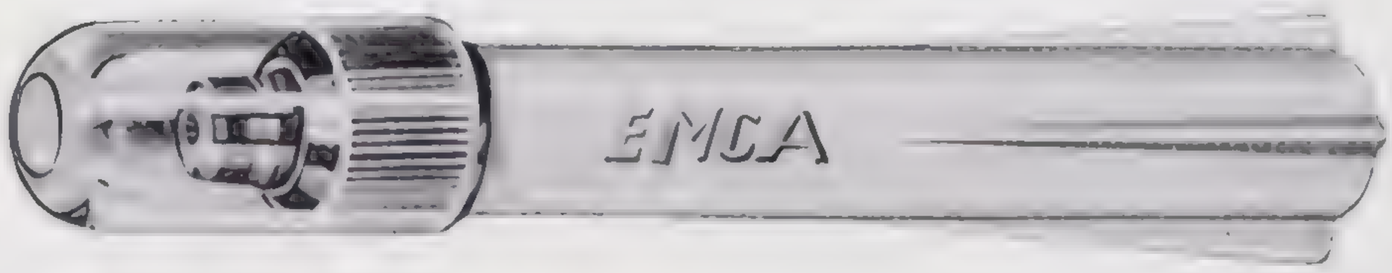
No. 4420 ALTENEDER LEAD POINTER. Makes a conical point in a few seconds. A quality Alteneder drafting aid.

No. 4421 REPLACEMENT KNIVES for Pointer.

LEAD POINTERS

No. 4430 TRU-POINT LEAD POINTER makes perfect points on leads of mechanical pencils or wood pencils after the wood has been cut back. Easy to operate; simply rotate top; will not break leads even when an extremely fine point is required. The graphite dust is retained within the Tru-point and is easily removed. The especially selected abrasive liners provide a long life; at least 4 months of everyday use. Removal is quick and easy. The mechanism is guaranteed against defects in materials and workmanship.

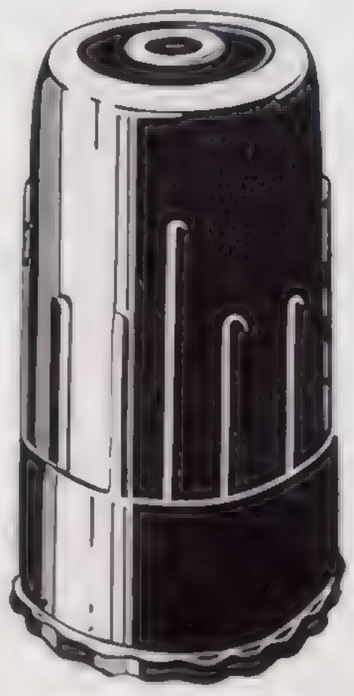
No. 4431 TRU-POINT ABRASIVE LINER REFILLS, 3 in package.



No. 4435 EMCA LEAD POINTER is a precision tool for sharpening all grades of lead used in mechanical drafting pencils. The cutting unit has four interchangeable blades that quickly and easily sharpen leads to a perfect conical point.

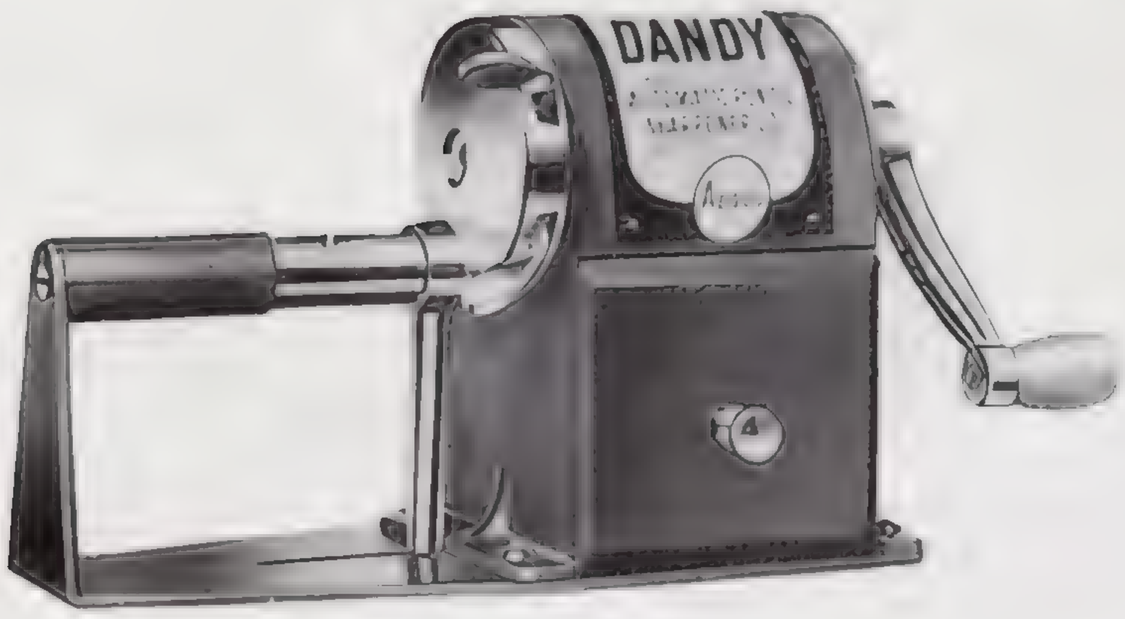
No. 4436 EXTRA BLADES for Emca Lead Pointer. Set of 4.

No. 4440 ALVIN LEAD POINTER. A few quick turns and any desired point is obtained. Keeps hands clean; graphite dust will not fall out. Fool proof construction designed for years of continuous service.

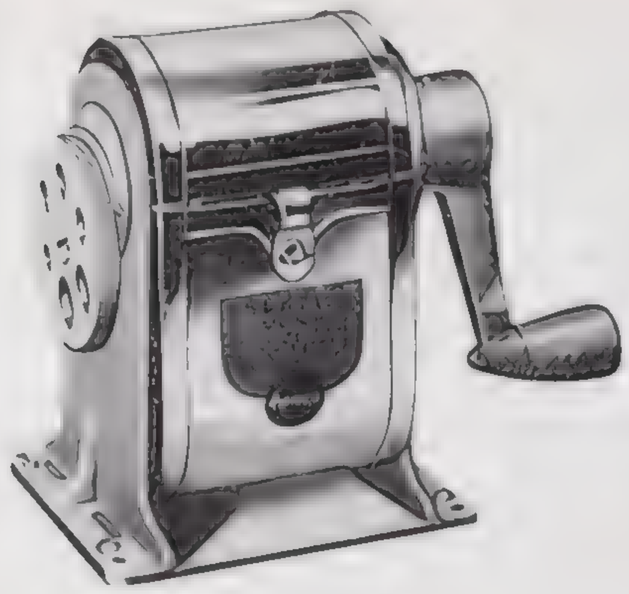


No. 4441 EXTRA BLADES for Alvin Lead Pointer. Set of four, 12 sets per box.

PENCIL SHARPENERS



No. 4460 - 61



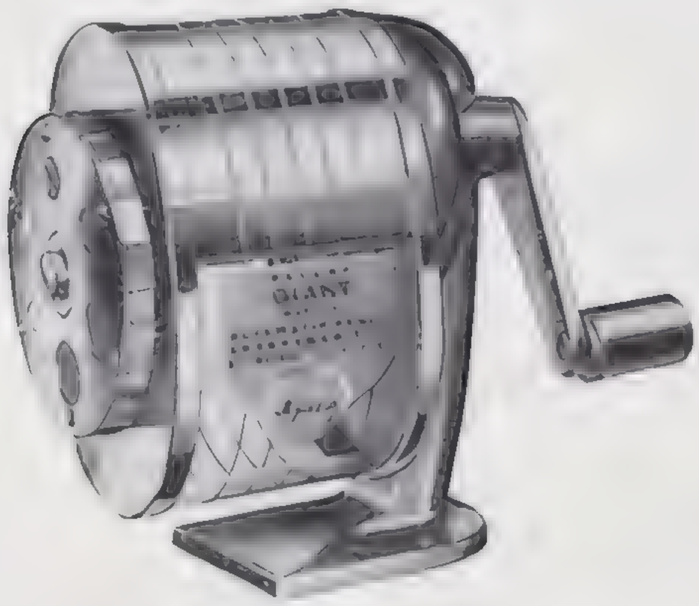
No. 4465

The Dandy Pencil Sharpener is especially designed for Drafting room use. It is made in two models, No. 4460 with standard cutters which produce any desired point from blunt to fine on both pencils and crayons. It feeds automatically and stops when proper point is obtained. No. 4461 is equipped with draftsmen's special cutters which remove only the wood from the pencil, leaving the graphite exposed so it may be sharpened as desired. The Dandy Pencil Sharpeners are of all steel construction and the workmanship and finish are unsurpassed.

No. 4460 DANDY PENCIL SHARPENER, complete with standard cutters.

No. 4461 DANDY DRAFTSMAN'S SHARPENER, complete with draftsmen's cutters.

No. 4465 DEXTER PENCIL SHARPENER is exceptionally well made and nicely finished. It sharpens all sizes of pencils and crayons and prevents waste as cutting stops when proper point is obtained. Produces any desired point from blunt to fine. There is automatic lubrication of every working part, and the clear plastic shaving receptacle locks securely and is easily removed.



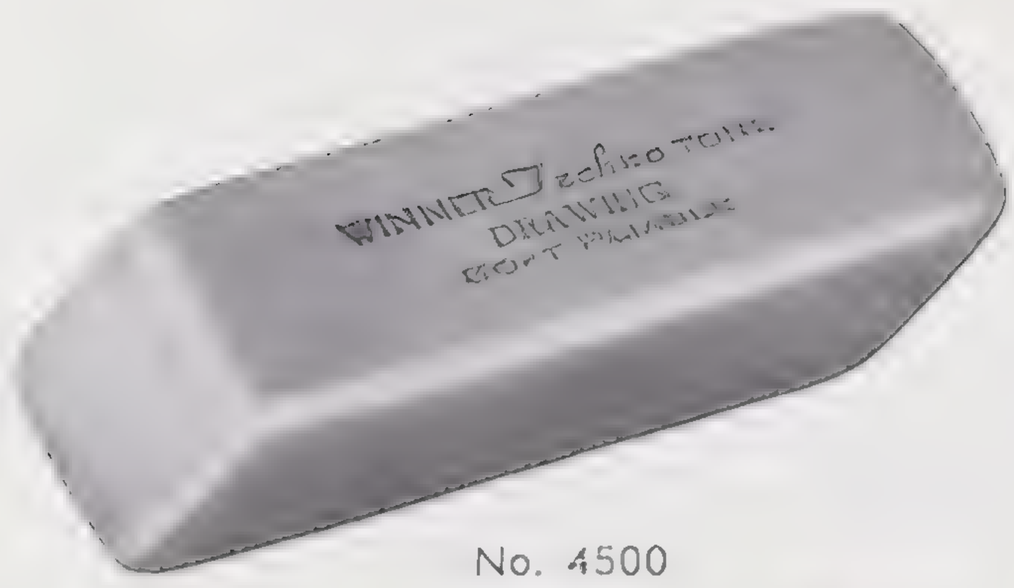
No. 4470

No. 4475

No. 4470 CHICAGO GIANT PENCIL SHARPENER, is a well made, reasonably priced pencil sharpener. It sharpens all sizes of pencils and crayons and is equipped with pencil stop and long wearing twin milling cutters. Metal trimmed plastic shaving receptacle.

No. 4475 BOSTON PENCIL SHARPENER is made for standard size pencils. Solid steel cutters set at a double angle give an extra long point. Cutting automatically stops when desired point is obtained. The sharpener can be attached to a vertical or horizontal surface. Transparent chip receptacle is easily removed.

PENCIL ERASERS



No. 4500

No. 4503

No. 4500 WINNER PENCIL ERASER. Pink, double bevel, soft and pliable. Will erase work of any degree of hardness without smudging.

No. 4502 PINK PEARL PENCIL ERASER. Small size, soft, pink, double bevel eraser.

No. 4503 PINK PEARL PENCIL ERASER. Large size, soft, pink, double bevel eraser.

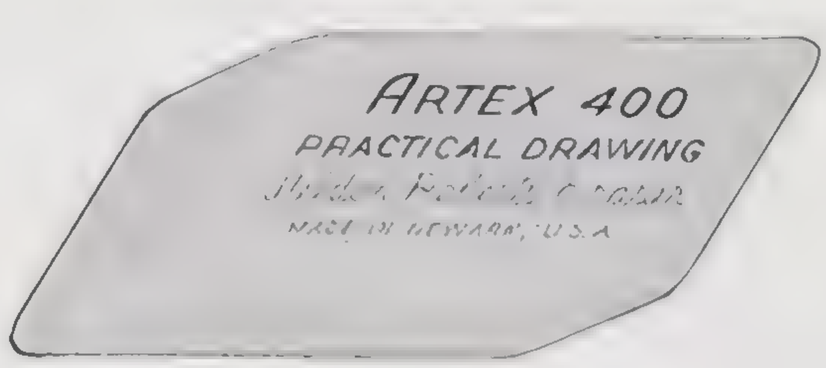
No. 4505 RUBY PENCIL ERASER, small. Double bevel.

No. 4506 RUBY PENCIL ERASER, large. Double bevel.

No. 4510 EMERALD PENCIL ERASER, small, double bevel.

No. 4511 EMERALD PENCIL ERASER, large, double bevel.

No. 4516



No. 4518

No. 4515 HEXO CLEANER PENCIL ERASER, small pink, velvety eraser.

No. 4516 HEXO CLEANER PENCIL ERASER. Large.

No. 4518 ARTEX PENCIL ERASER. Medium size, soft, white eraser with bias and beveled ends.

PENCIL ERASERS

No. 4520

No. 4525 - 26

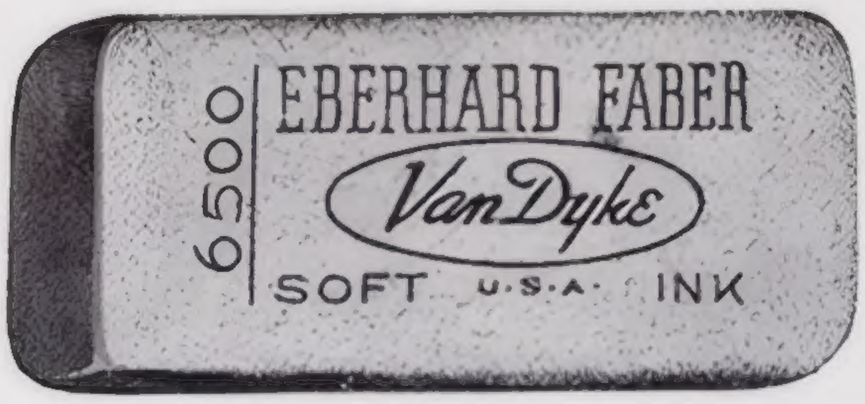
No. 4520 TITIAN PENCIL ERASER. Large, soft, velvety pink eraser with bias—beveled.

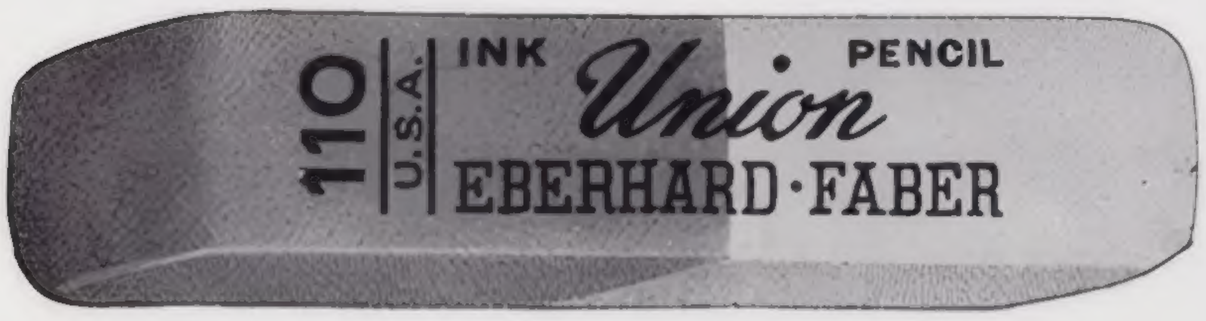
No. 4525 CORALINE PENCIL ERASER. Medium size, soft, pink bias—beveled ends.

No. 4526 CORALINE PENCIL ERASER. Large size, soft, pink bias—beveled ends.

COMBINATION PENCIL AND INK ERASERS

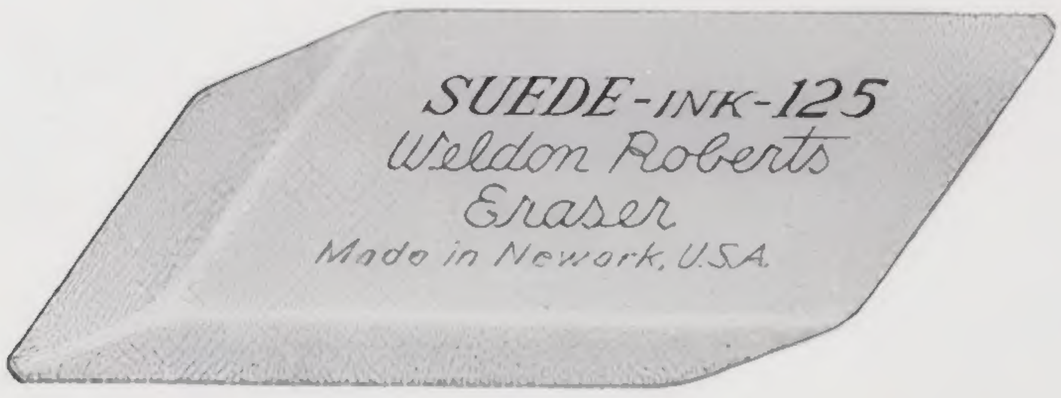
No. 4540 VAN DYKE INK ERASER. Large, soft, red, double bevel eraser for ink or typewriter.



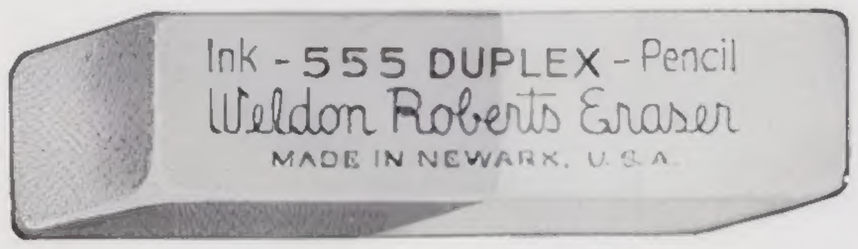


No. 4550 UNION COMBINATION ERASER. For ink or pencil. Small.

No. 4551 UNION COMBINATION ERASER. Large.



No. 4555



No. 4560

No. 4555 SUEDE COMBINATION ERASER. For ink or pencil, excellent cleaning quality.

No. 4560 DUPLEX COMBINATION ERASER. For ink and pencil, double bevel shape.

ARTISTS ERASERS

No. 4565 KNEADED RUBBER. Small
No. 4566 KNEADED RUBBER. Large

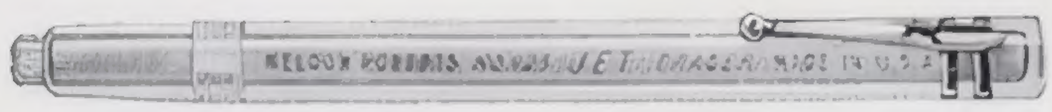
No. 4570 KNEADABLE ERASER. Small
No. 4571 KNEADABLE ERASER. Large

No. 4575	**ARTGUM**	**CLEANING**	**ERASER,**	1x1x1 inches
No. 4576	"	"	"	1 1/8x1 1/8x1 1/8 inches
No. 4577	"	"	"	2x1x1 inches
No. 4578	"	"	"	2 1/4x1 1/8x1 1/8 inches
No. 4579	"	"	"	3x2x1 inches
No. 4580	"	"	"	3x3x2 inches

TYPEWRITER ERASERS

No. 4585 CIRCULAR TYPEWRITER ERASER, with nickel plated disc. Medium texture, gray eraser. Exceptional quality, durable and economical.

ERASERS IN PENCIL FORM



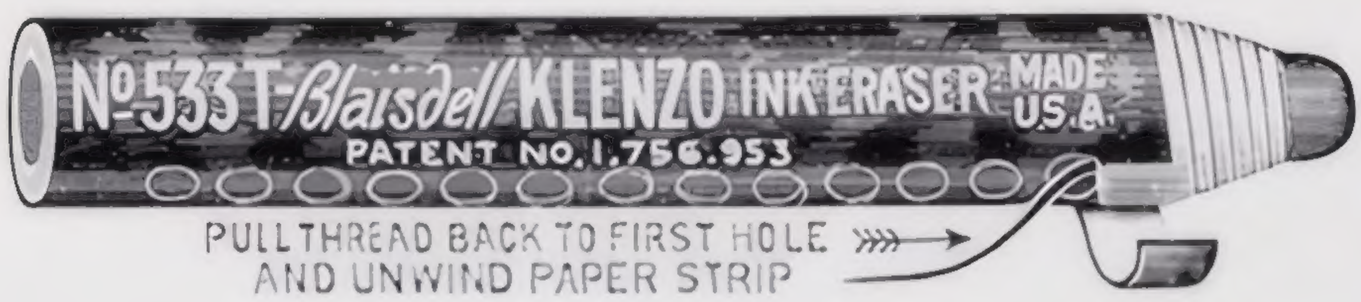
The Jet Eraser is a convenient pocket or desk eraser in a transparent plastic holder. By unscrewing the tip the eraser is moved forward as it is needed. Pencil or Ink erasers in two styles; with pocket clip or whisk brush.

No. 4595 JET PENCIL ERASER with pocket clip.

No. 4596 JET PENCIL ERASER with whisk brush.

No. 4597 JET INK ERASER with pocket clip.

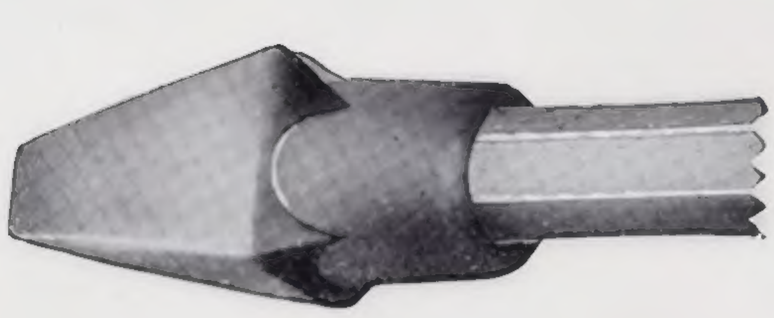
No. 4598 JET INK ERASER with whisk brush.



No. 4600 BLAISDELL KLENZO TYPEWRITER AND INK ERASER in tear-back pencil form. Always pointed, always clean.

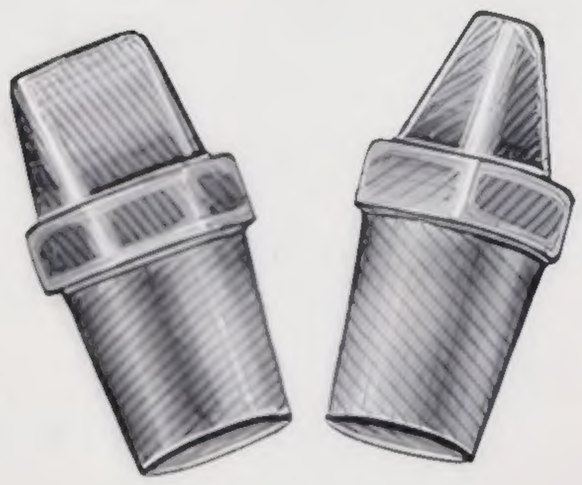
No. 4601 SHARPLINE PENCIL ERASER in tear-back pencil form. Will erase work of any degree of hardness without smudging.

PENCIL ERASER HOODS



A practical and economical replacement eraser for all standard sized pencils.

No. 4605 EBERHARD FABER HELMET PENCIL ERASER HOOD.



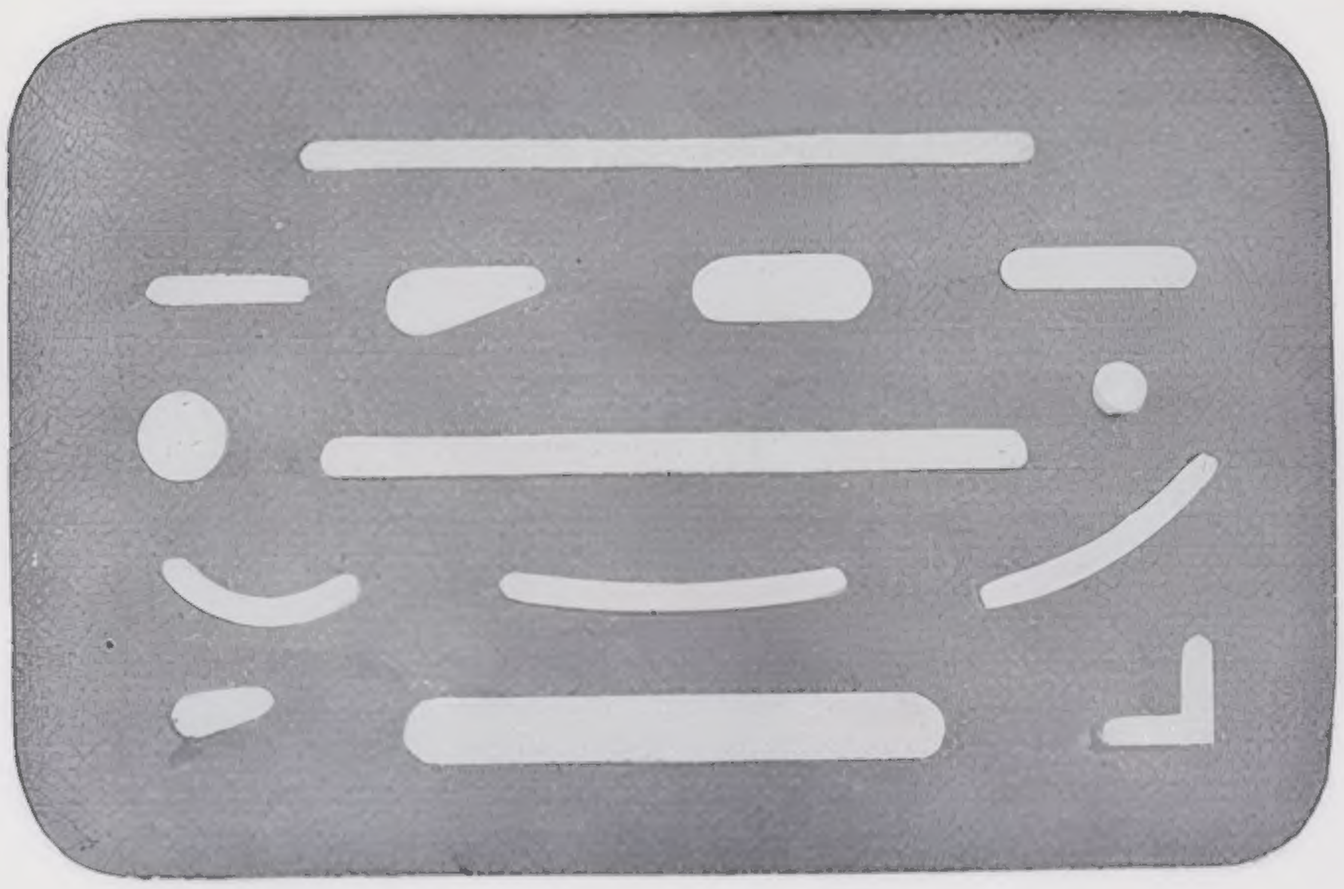
No. 4606 DIXON WEDGE PENCIL ERASER HOOD.

STEEL ERASERS

No. 4610 STEEL ERASER with short blade, coco handle.

No. 4611 STEEL ERASER with long blade, coco handle.

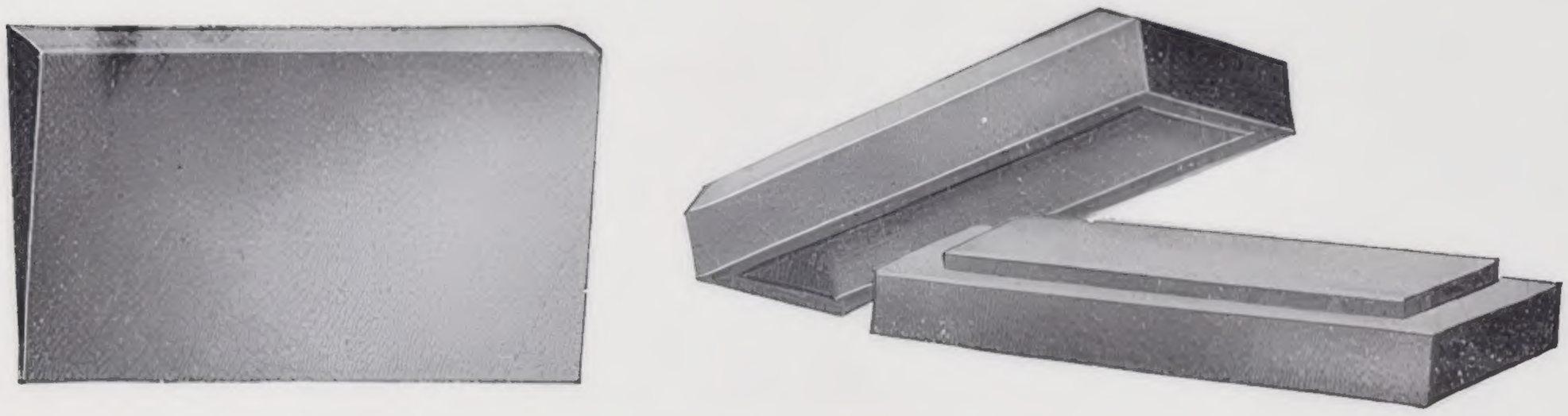
ERASING SHIELDS



No. 4615 ERASING SHIELD, of highly polished nickel silver with 14 openings. 2⅜ x 3¾ inches.

No. 4616 ERASING SHIELD, of high grade safety razor steel with 14 openings. 2⅜ x 3¾ inches.

ARKANSAS OIL STONES



Arkansas Oil Stones are used for sharpening ruling pens to a fine edge.

No. 4617 ARKANSAS OIL STONE, wedge shape slip.
No. 4618 " " " wedge about 1¾ x 3 inches.
No. 4619 " " " wedge about 1¼ x 4½ inches.
No. 4620 " " " in box with cover, 3 inches.
No. 4621 " " " in box with cover, 5 inches.